

# Alyssa Reyes

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## Education

University of California, Irvine

June 2025

Bachelor of Science in Computer Science

GPA: 3.746/4.0

**Relevant Coursework:** Machine Learning & Data Mining, Design & Analysis of Algorithms, SQL/Database Management, Data Structures, Computational Photography, Discrete Math and Structures

## Skills

**Languages:** JavaScript, Node.js, Python, TypeScript, SQL, HTML, CSS, C++, C#

**Tools & Frameworks:** React, Express, Figma, AWS, GCP, Firebase, Docker, Scikit-Learn, Pandas, NumPy, Git

## Experience

Sound Ethics

January 2025 - June 2025

*Machine Learning Engineer & Front-End Lead*

- Led a front-end team of 3 students as part of a 7-member group on an industry-sponsored project with the CEO and Executive team of Sound Ethics to research and develop a deep fake audio detection model
- Developed a *Python* script to preprocess **22,000+** audio files using stem separation, noise removal, and feature extraction with *Librosa*, *FFmpeg*, *Tensorflow*, and *Mutagen* to curate our own dataset
- Improved the real audio detection of the RawNet2 model with a **76% increase** and the fake audio detection with a **19% increase**
- Designed the front-end UI/UX in *Figma* based on Sound Ethics' existing style, iterated on the design with feedback from the front-end mentor, and implemented the final version using *React*, *JavaScript*, and *Tailwind CSS*

FUSION Reel In

November 2024 - June 2025

*Sub Lead & Full-Stack Web Developer*

- Facilitated cross-functional collaboration in two-week sprints using *Scrum* practices to co-lead the development of a full-stack student project hub web application
- Developed **20** *React* components, ensuring a dynamic and responsive user interface
- Designed and implemented the database model in *Supabase* using *PostgreSQL* syntax, optimizing data structure and storage efficiency
- Engineered **15** *RESTful* APIs with integrated client-side functions, ensuring seamless dataflow between the frontend and *Supabase* backend

The Coder School

November 2022 - February 2025

*Coding Coach*

- Mentored **20+** students ages 8 to 18 on coding fundamentals in languages such as Python, Java, and C++
- Boosted student retention by personalizing projects to students' interests and learning styles
- Designed over **20** interactive coding exercise and mini-projects, improving students' problem-solving skills by **25%** as measured by progress in assignments

## Projects

Fablix

September 2024- December 2024

- Developed a full -stack web application to manage and browse a catalog of **10,000+** movies
- Designed and deployed the back-end with *MySQL*, *JDBC*, and *Apache Tomcat*, ensuring secure and efficient data handling through connection pooling, *MySQL* replication, and SQL injection prevention
- Implemented advanced features such as secure authentication (SHA256 hashing), bot detection (reCAPTCHA), full-text search, and auto-complete with caching
- Built an ETL pipeline to process large XML files, loading **10,000+** movie records into *MySQL*
- Optimized performance and scalability with Apache load balancing and deployed the application in a *Docker* container on a *Kubernetes* cluster across multiple AWS instances